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Dräger medical
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Field Service Procedure

Part Number: SP00294
Rev: B
Date: 2 February 2004
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Saturn 4.10 to Innovian 1.xx Upgrade Procedure

Change History

Revision	Description	Date	Approval
-	Initial Release	10/16/03	
A	Updated per testing and Service feedback. Updated doc name from 4sys 1.00 to 4sys 1.xx. The current 4sys released software version is 1.01.	10/30/03	
B	Updated a section name from 4sys 1.01 to 4sys 1.1; Updated protocol selection files to be the three used at Rockford; Added to manual changes list, section H; Changed p.6 #3 from D:\Saturn to E:\Saturn.	11/14/03	
C	Updated the protocol loader run section to include running CreateUser for the Setup user.	11/14/03	
D	Changed 4sys name to Innovian, Updated the procedures with Service notes from Beta release installation at Rockford	1/7/04	

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Ch XX

This section provides the outline for upgrading Saturn Software Version 4.10 to Innovian version 1.xx. The operator must have a basic understanding of Windows NT and Windows 2000.

Saturn 4.10 to Innovian 1.xx Upgrade Procedure *SP00294 Rev. B*

Purpose

This document outlines the steps necessary to perform an upgrade of an existing Saturn Information System from Version 4.10 to Innovian Version 1.1.04.

This procedure provides instructions to upgrade a Saturn Server system. The operator must have a basic understanding of Windows NT and Windows 2000.

NOTE: This procedure, and all files used for the server upgrade portion of this document assume the "D:" drive. If either Sybase or the Database are installed on a different drive, then modify the conversion files accordingly, as indicated within the text.

Requirements

- The System Server must be at Saturn Version 4.10 software.
- The following installation disks and service procedures are required for this upgrade:
  - Saturn v4.10 Protocol Update Instructions (Field Service Procedure # SP00252 Rev. A)
  - CD – Protocol Update – Saturn 4.10 (4117969-001)
  - DVD – Version 1.00 4sys Installation (PN 411xxxx)
  - Innovian Information System Server Installation Procedure (# SP00292)
  - Innovian Information System Workstation Installation Procedure (# SP00293)
  - Innovian Communication System Interface (CSI) Installation and Configuration (#4118490-001)
  - Innovian System Checkout Procedure (SP00295)

A) Saturn Server Preparation

1. Stop the Scheduler Service on the Server and change it to Manual on Startup.

2. Stop any other Sybase services that may be running, such as the Validate service.

3. Verify the last full and incremental backups were sent to tape and validated.

   Note: Duke has a different Administrator password than other sites.

B) Saturn Workstation Preparation

For 3rd Party Clinicals

1) Record the following:
    a. TCP/IP settings
    b. Computer/domain name
    c. Printer settings
    d. Saturn Port settings
    e. HPU's - IRQ settings for COM ports 5,6,7,8 (ISOCOMM card) under NT ports applet in Control Panel Record IRQ settings

ALL WORKSTATIONS

1) Using task manager, stop **System 1**, **Recorder**, and **NADRepAgent**.
2) Explore to the **QueueChk** share on the server.
3) Copy the contents of the **QueueChk** folder to the root of **C:** on the workstation.
4) Run the **bat_check_queue.bat** file to determine if the local queue has items in it
5) If the queue has items in it, reboot the workstation and run the **bat_check_queue.bat** file again.
6) If the queue still has items in it, check the **NT event log**. If there are any errors other than a Primary Key constraint error, create a new case but do not save it.
7) Run the **bat_check_queue.bat** file again.
8) If there are Primary constraint errors, or if queue still has items in it, contact Saturn Support.

    Note: If a nonclinical or a third party clinical, then perform the following (otherwise skip to step #12).

    9) Run **bat_drop_databases.bat**
    10) Check the **log_sql_drop_databases.txt** file to verify DB's were dropped without error.
    11) Contact Saturn Support if any errors are received.

12) Verify **System 1**, **Recorder** and **NADRepAgent** are stopped.
13) NC & HPU's – delete the files copied in step 3 above.
14) Disable Saturn on the workstation by performing one of the following: **Clinicals** – rename C:\NAD\preboot\preboot.exe ; **Nonclinicals** – remove Saturn from the **Start** menu.

C) Clearing Locked Patients and Cases

Update Protocols
To verify all cases are complete, do the following on the server.

1) Launch the Sybase Central application.
2) Connect to the server database.
3) Check if the **InUse_bol** column is set to **1** in the PDMCase and Patient tables.
   a. Execute the '**Select * from PDMCase where InUse_bol = 1**' command from ISQL.
   b. Execute the '**Select * from Patient where InUse_bol = 1**' command from ISQL.
4) If any cases are displayed when either one of these commands is executed, do the following:
   a. Find out which workstation has the case or patient locked by looking at the **ReplicationLocation_id** column returned from the commands executed above.
   b. Execute '**Select * from LocalConfiguration where SerialNumber_int = ?**' where ? is the value from the **ReplicationLocation_id** column and look at the **WorkstationName_str** column to find the workstation.
   c. Check that all cases on that workstation have been replicated.
   d. If there are no cases or patients on the workstation, database or queue, execute the following commands from ISQL:
      i. Execute '**Update PDMCase set InUse_bol=0, ReplicationLocation_id=0** where Case_id=?' where ? is the case ID of the case that had the InUse_bol column set to 1.
      ii. Execute '**Update Patient set InUse_bol=0, ReplicationLocation_id=0** where Patient_id=?' where ? is the patient ID of the patient that had the InUse_bol column set to 1.
      iii. Execute '**Commit**'.
5) Get the total number of rows returned from viewing the data in the **CaseAutomaticData** table. Write this number down for verification later in the procedure.

D) Saturn Server Upgrade to 4.10.6.5

1) Run the Field Service Procedure **#SP00252**, sections 1 and 2 only.
2) Verify no errors received.

3) Stop the server service.
4) In the server service properties tab, change the **–x** parameter from TCPIP to **NONE**.

5) Verify the **–n** parameter is set to Saturn, otherwise change it and inform the DBA (Database Administrator) that the database server name was changed to Saturn. ***Note***: Duke was set to SaturnP and needs to be changed.

6) Copy **DB** and **Log files** to another folder (COPY1) on the server.

7) Spin the copy1 files off to backup tape.

Validate Database

Note: Only perform if time permits. Some sites will have this step performed a few days prior to the conversion commencing, thereby taking the chance on the last couple of day's worth of data due to the size of their database and the time it takes to validate it.

1) Start the server service.

2) Go to a DOS command prompt and change to the **nad\db** directory on the server.

3) Type the following at the prompt: *dbvalid –c "uid=NAD;pwd=NADADMIN;dbf=X:\nad\db\periopdm.db" –o X:\nad\db\dbv.txt* (where "X" is the drive where the database is located)

4) A '**No Errors Reported**' message is displayed. If an error is reported, consult your NAD Database Representative and wait for further instructions.

5) Stop the server service.

E) Upgrade to Innovian 1.1.04

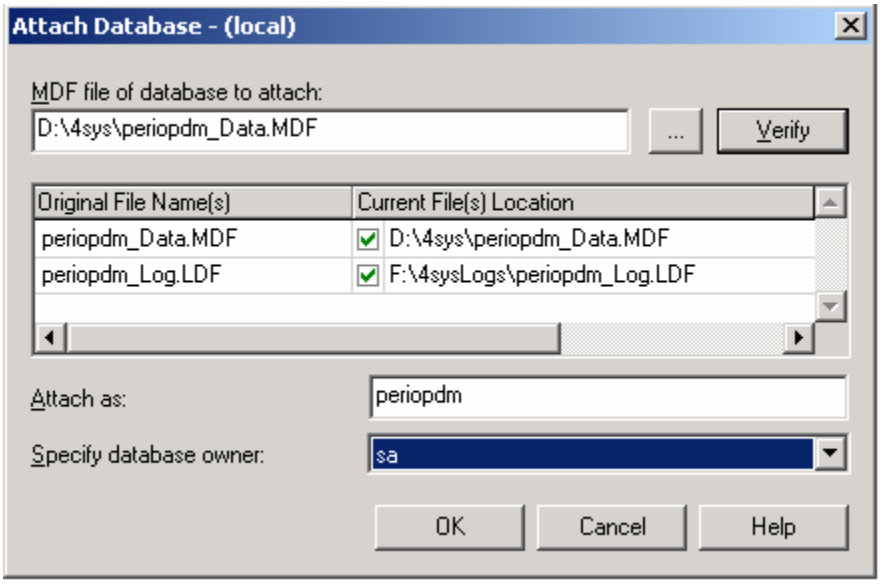
Server Conversion
Note: This procedure is designed around the use of the migration server. The migration server must be set up according to the Migration Server Setup document. The data conversion happens in three main steps. First, the Sybase DB is copied to the server; second, during the conversion the Sybase data is transferred to an SQL Server DB with the same schema, called Staging; and third, the data is converted from Staging to Periopdm.mdf.

1) Connect the migration server to the site's network. Note: As long as the site has DHCP you can simply plug the box into their network. Otherwise you'll need a valid IP address to use.
2) Set the migration server's time zone to be correct for the site, and verify the '**Adjust for Daylight Saving's Time**' check box is selected. This step is **EXTREMELY IMPORTANT** because it affects all of the stored time stamps in the database that are being converted.
3) Copy the site's production database files, **Periopdm.db** and **Periopdm.log** from their server path **D:\NAD\DB** to the migration server's **E:\Saturn** directory.
4) Verify enough disk space (at least 2.5 times the size of the database file) is available in order to convert the database.
5) Start the Sybase Server service and verify no errors are received.
6) At this point, the customer's production server can be rebuilt per the Innovian requirements and the 4sys Server Installation Procedure directions (sections #1, 2, 5, 6, 7, 13, and Appendix A).
7) Copy the three released database from the **D:\4sys\Release DB** directory into the **D:\4sys** directory. The file names are: **Periopdm_Data.mdf**, **PatientInfo_Data.mdf**, and **Audit4sys_Data.mdf**,.
8) Copy the three released DB log files from the **D:\4Sys\Release DB** directory into the **F:\4sysLogs** directory. The file names are: **Periopdm_Log.ldf**, **PatientInfo_Log.ldf**, and **Audit4sys_Log.ldf**.

   Note: Check all six files' properties to make sure all **.mdf** and **.ldf** files are readable. Enterprise Manager can be opened by clicking **Start\Programs\Microsoft SQL Server\Enterprise Manager**. Query Analyzer can be opened by clicking **Start\Programs\Microsoft SQL Server\Query Analyzer**.

Attach SQL Server Databases

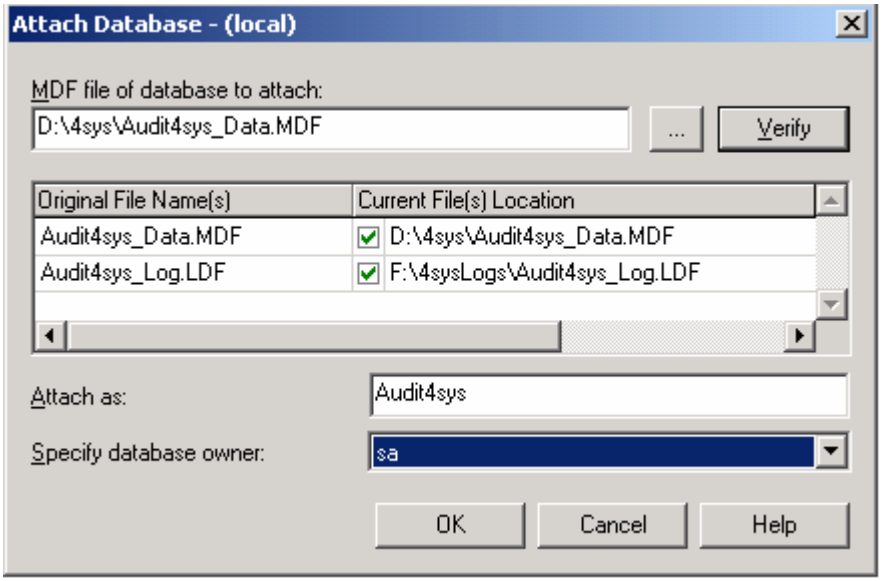
1) In Enterprise Manager, right-click and choose **All Tasks\Attach Database**. Browse to **D:\4sys\Periopdm_Data.mdf**.



2) Change the database's log file path to be in **F:\4sysLogs**. IMPORTANT: Make sure to select **SA** as the owner of the database when attaching.

3) Click **OK**.

4) In Enterprise Manager, right-click and choose **All Tasks\Attach Database**. Browse to **D:\4sys\Audit4sys_Data.mdf**.

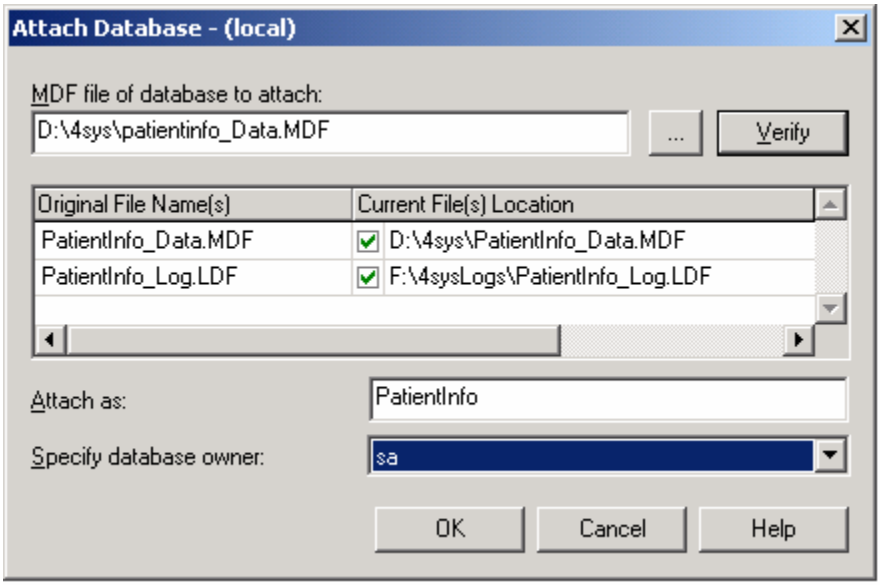


5) Change the database's log file path to be in **F:\4sysLogs**. IMPORTANT: Make sure to select **SA** as

the owner of the database when attaching.

6) Click **OK**.

7) In Enterprise Manager, right-click and choose **All Tasks\Attach Database**. Browse to **D:\4sys\PatientInfo_Data.mdf**.



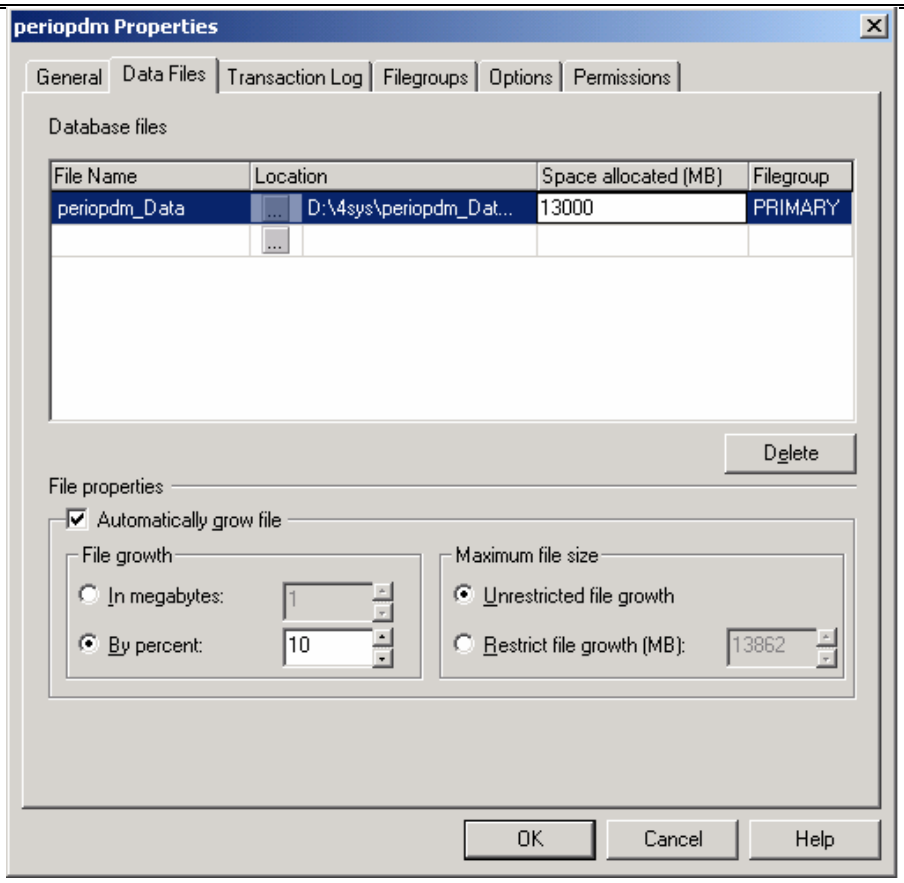
8) Change the database's log file path to be in **F:\4sysLogs**. IMPORTANT: Make sure to select **SA** as the owner of the database when attaching.

9) Click **OK**.

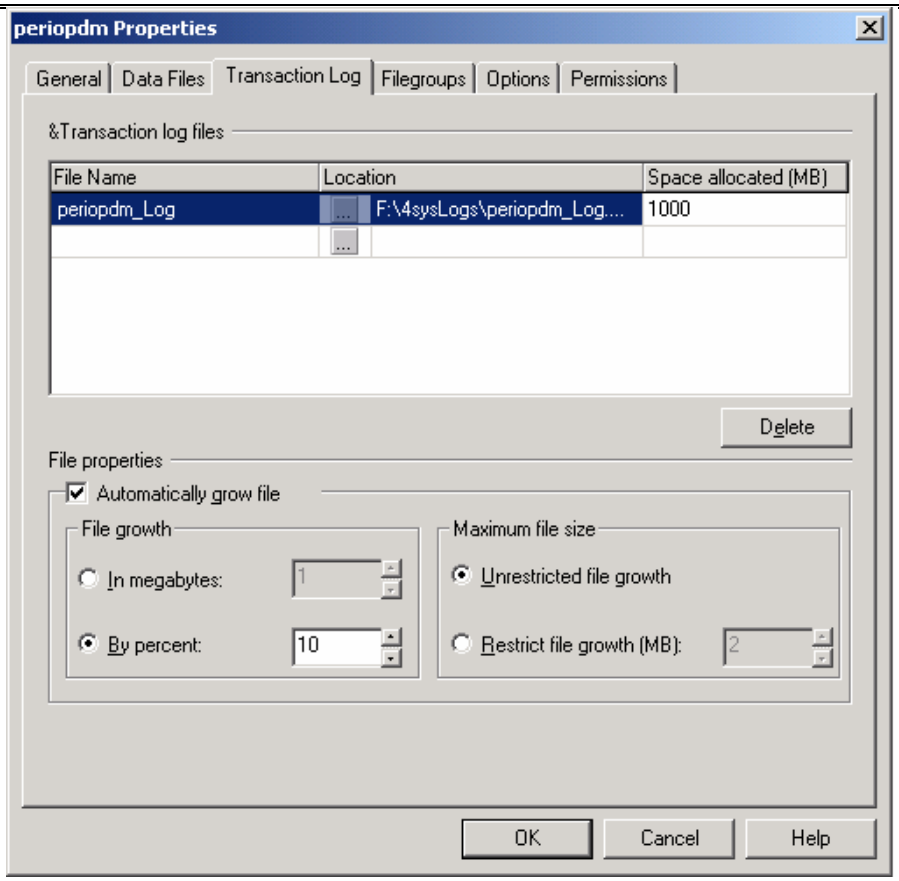
Resize Periopdm File

1) In Enterprise Manager, right-click on Periopdm database and choose **Properties**.

2) Select the **Data Files** tab and change the **Space Allocated** value to be the size of the current Saturn database. E.g. A 13GB database would need the value 13000 entered here.



3) Switch to the **Transaction Log** tab and change the **Space Allocated** value to be 1000, for 1GB worth of space.



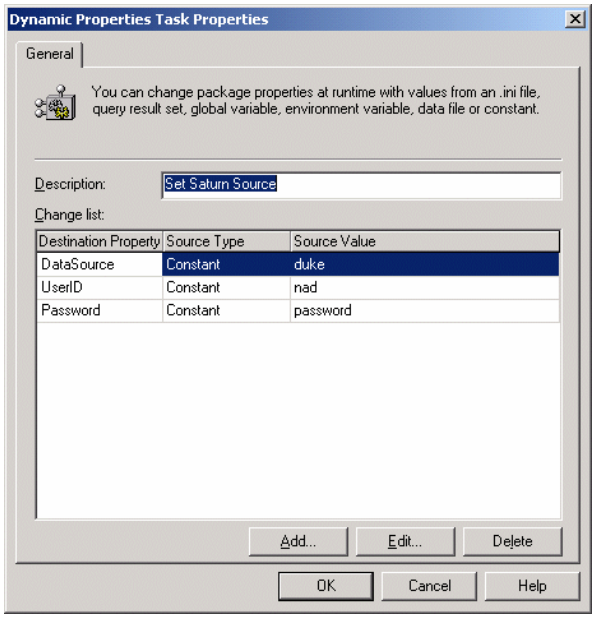
4) Select **OK**.

   Note: this change could take several minutes to run so be patient.

Run DTS Package

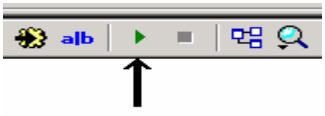
1) Verify or modify the **ODBC** entry for the current Saturn database by performing the following steps.
2) Open **SQL Server Enterprise Manager**.
3) Connect to (**Local**) server and expand the **Data Transformation Services** and select **Local Packages**.
4) Double-click the **Saturn Migration to 4sys** DTS Package.
5) Double-click the **Set Saturn Source** in the upper left of the DTS Package. It looks like:

6) The Dynaic Properties Task Properties screen is displayed, allowing the user to change the values of the **Datasource** (ODBC datasource name for the Saturn database), the **UserID** of the Saturn database, and the **Password** of the Saturn database.

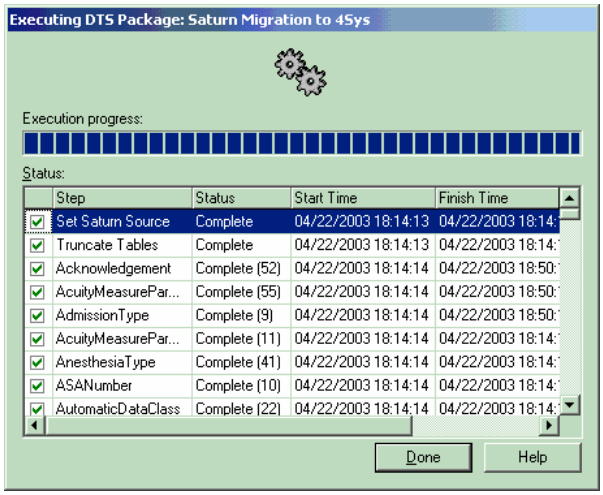


7) Edit the above values to provide the correct information for the Saturn database, and click **OK** to close the dialog.

8) Execute the package by clicking the **green arrow** on the toolbar.



The migration runs and indicators are shown in the progress dialog.



9) The progress continues relatively quickly until it reaches the **CaseAutomaticData** to **CasePhysiologicalData** step.
If errors occur, consult your NAD Database Representative and wait for further instructions.

10) When it is on the **CaseAutomaticData** to **CasePhysiologicalData** step, refer to the **Status** column to see progress.
Note: A 1.5 GB database will take approximately 30 minutes to convert. A 13 GB database will take approximately 3 hours to convert. A 60 GB database will take approximately 13 hours to convert.
If errors occur, consult your NAD Database Representative and wait for further instructions.

11) Verify that the process completes without error.

12) Check the conversion log file named '1 – Overall Migration Log.txt' for errors (found in the **C:\DTS Error Logs** folder). The top line should say 'succeeded'. Can also search for the words 'Error' and 'Fail'.

Run DBCC Check Constraints

1) Open **Query Analyzer**.

2) In the database drop-down box on the toolbar, make sure **PeriopDM** is selected.

3) Execute this SQL statement: **DBCC checkconstraints**.
Note: A 13GB DB takes approximately 22 minutes to complete.

4) Ensure that no errors are returned.
If errors occur, consult your NAD Database Representative and wait for further instructions.

F) Customer's Production Server

Note: No workstations are permitted to connect to the server until noted, later in this section (E).

Copy the Database Files and Logs to the Customer's Server

1) Record the location of the three database files (they should be at **D:\4sys folder**). These can be found be right-clicking on each database and choosing **Properties**. Choose the **Data Files** tab and the **Transaction Log** tab to determine the location of each of these files (they should be at F:\4sysLogs).

2) Detach the database (right-click on the database in Enterprise Manager and select **All Tasks**…then **Detach Database**).

3) Once the Client's Server upgrade is complete, copy the database files (from the location previously determined) to the client's server into the **D:\4sys** folder.
4) Remove the production server from the network (disconnect the network cable). No workstations are allowed to connect to the databases yet.
5) In Enterprise Manager, right-click and choose **All Tasks\Attach Database**. Browse to **D:\4sys\Periopdm_Data.mdf**. IMPORTANT: Make sure to select **SA** as the owner of the database when attaching.
6) In Enterprise Manager, right-click and choose **All Tasks\Attach Database**. Browse to **D:\4sys\Audit4sys_Data.mdf**. IMPORTANT: Make sure to select **SA** as the owner of the database when attaching.
7) In Enterprise Manager, right-click and choose **All Tasks\Attach Database**. Browse to **D:\4sys\PatientInfo_Data.mdf**. IMPORTANT: Make sure to select **SA** as the owner of the database when attaching.

Run the Protocol Loader Application

Note: The **Draeger.Platform.IT.Config** file must be configured correctly for this application to run successfully. Make sure the server name is correct and that fault tolerant is set to **False**.

1) Open SQL Query Anaylzer.
2) Verify you are attached to the Periopdm database.
3) Do a File Open: D:\4sys\Tools**CreateSetupuser.sql**
4) **Execute file**
5) Do a File Open: D:\4sys\Tools**CreateReportsuser.sql**
6) **Execute file**
7) Close SQL Query Anaylzer.

Upgrade the Database to Innovian Release 1.1.0.4

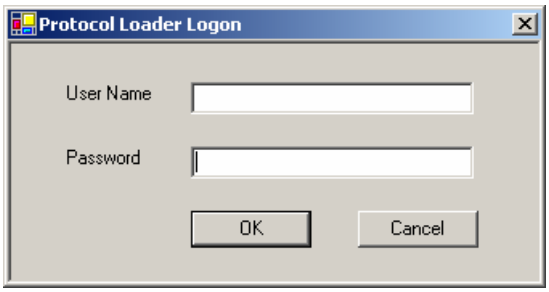
This section identifies and executes the scripts that will upgrade the database from Build_0052 to Build_0054.1.

1) Copy the folder BetUpgrade from the Install DVD to D:\4sys\.
2) Open DITdb_Build_0053 UpgradeScript.sql in Query Analyzer and execute it, ensure that no errors are returned.
3) Open DITdb_Build_0054 UpgradeScript.sql in Query Analyzer and execute it, ensure that no errors are returned.
4) Open DITdb_Build_0054_1 UpgradeScript.sql in Query Analyzer and execute it, ensure that not errors are returned.

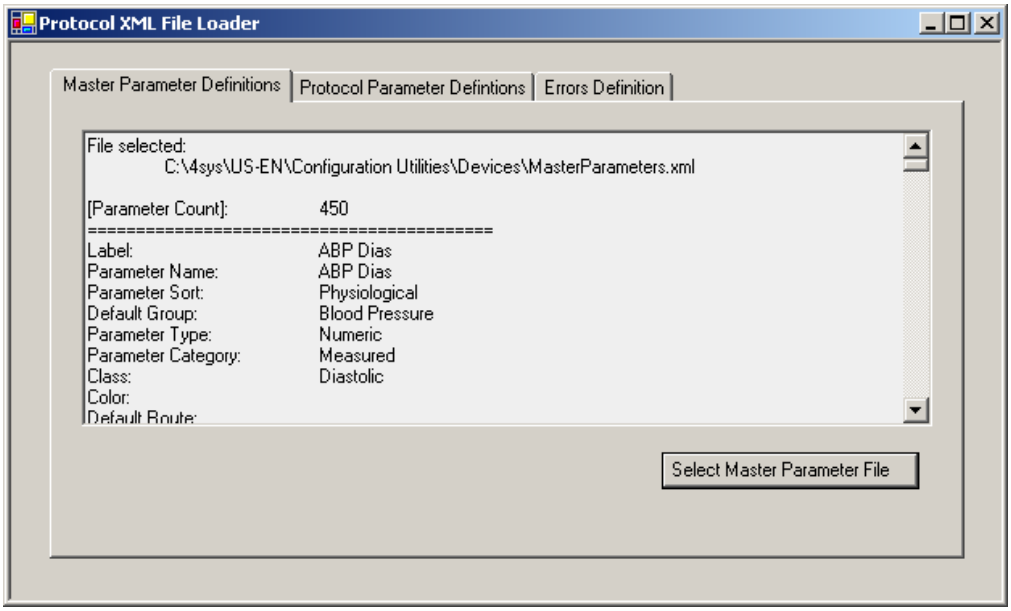
8) Browse to D:\4sys\Configuration Utilities.

9) Double-click **ProtocolLoader.exe**.

10) Log on using the **Setup user**.



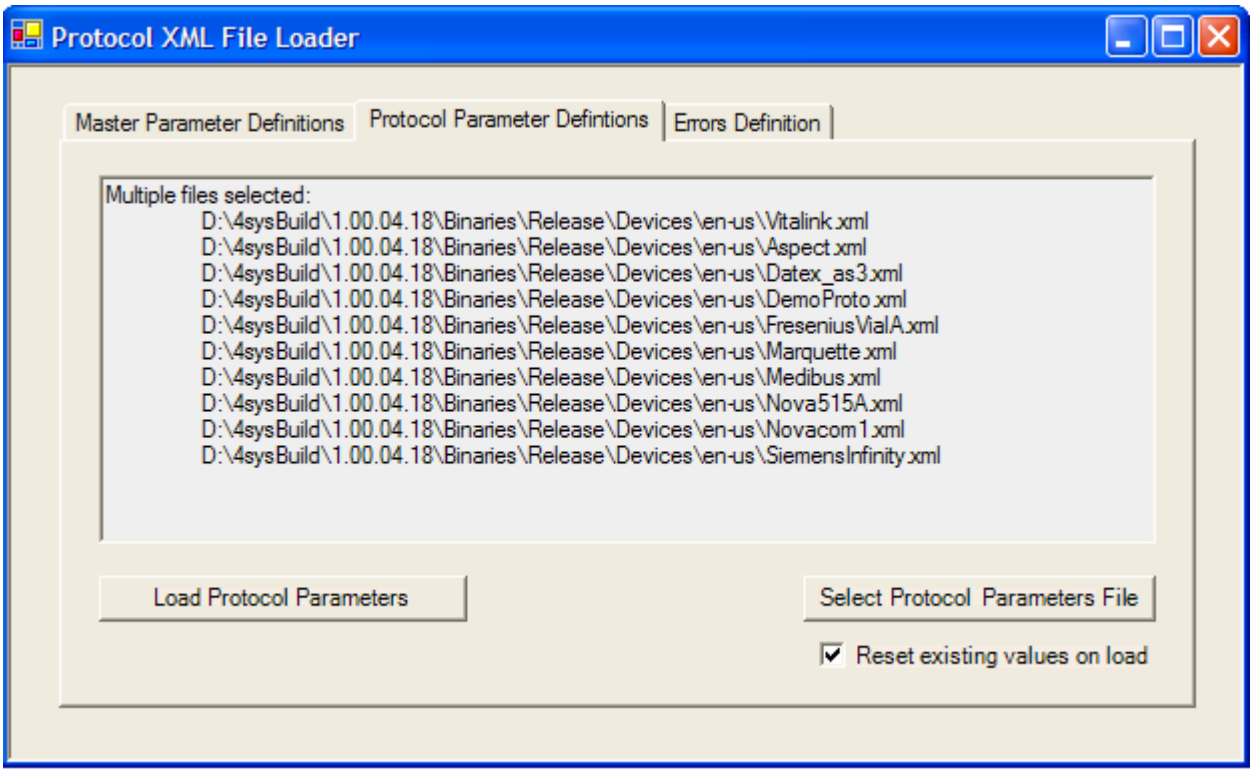
11) Click **Select Master Parameter File** and browse to D:\4sys\US-EN\Devices\ and select **MasterParameters.xml**.



12) Switch to the **Protocol Parameter Definitions** tab.

13) Click **Select Protocol Parameters File** and browse to D:\Innovian\US-EN\Devices\. Select the three **.xml** files for Medibus, Vitalink, and Marquette (using CTRL – Left Click filename) and then click **Open**.

14) This step is IMPORTANT - Select the check box for **Reset existing values on load**.



15) Click **Load Protocol Parameters** and wait for the load to complete.

16) Select the **Errors Definition** tab and verify no errors reported.

17) Open **Query Analyzer** and attach to **PeriopDM**.

18) Open **D:\4sys\Tools\GraphParameterLoad_SP_Install.sql** and execute it.

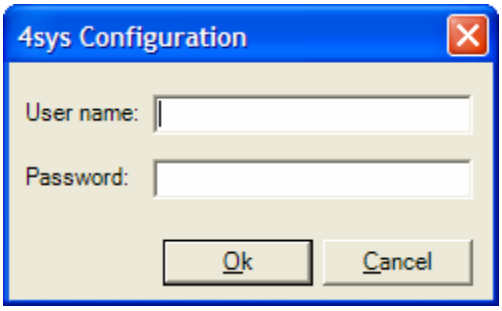
19) Close **Query Analyzer**.

Run the 4sys Configuration Application

1) Browse to D:\4sys\Configuration Utilities.

2) Double-click the **4sys Configuration.exe**.

3) Log on using the **Setup user**.



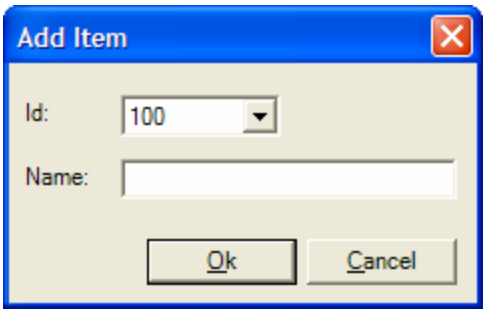
Notes:

- If the **Options\Auto Save** check box is selected, any workstation changes made to licensed modules will be saved automatically when a different workstation is selected.

- If the **Options\Auto Create** check box is selected, any new workstation that is created will automatically be configured and saved with the currently selected licensed modules.

4) Select **File\New** or press **Ctrl+N** to create a new workstation if any are required for the upgrade.

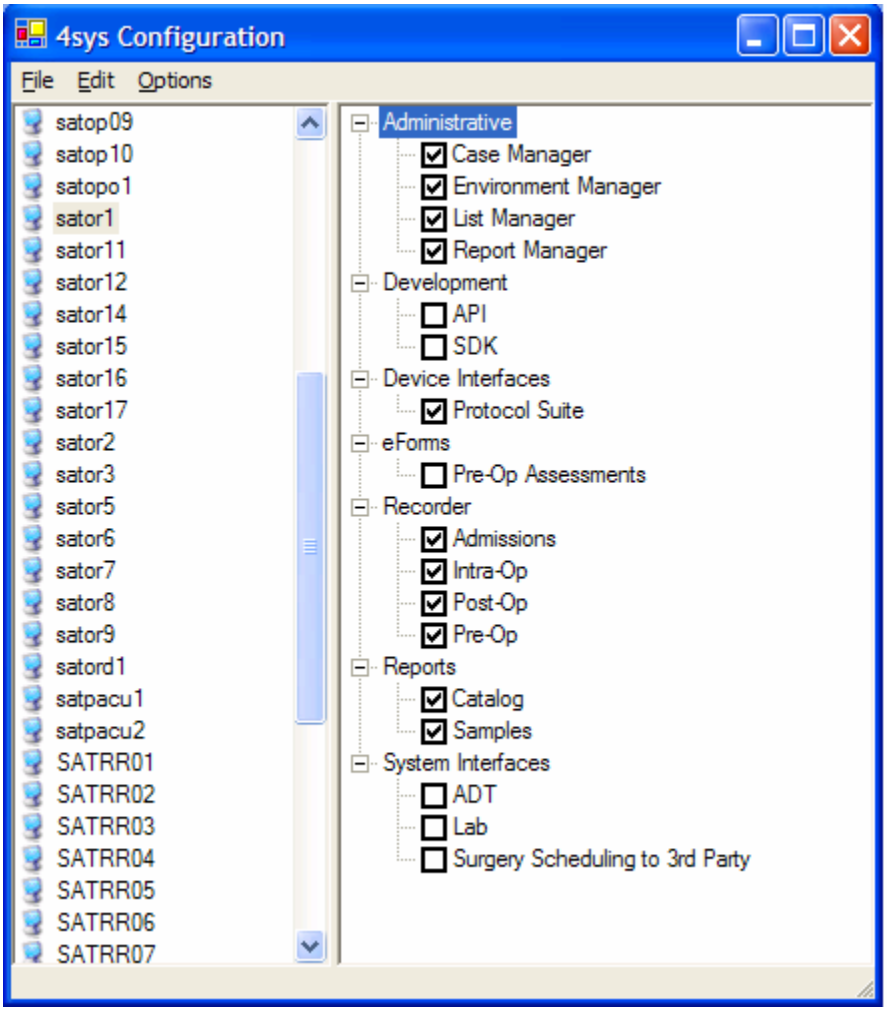
The Add Item dialog appears. Enter the workstation **Name**, select an **Id**, and then click **OK**.



5) Select the workstation created in the left pane, and then select the check boxes for the appropriate

licensed modules in the right pane. For previous Saturn users, you need to check the **Administrator**, **Device Interfaces**, **Recorder**, and **Reports** check boxes. If HL-7 was installed at the Saturn site then you will also need to add the **System Interfaces Surgery Scheduling to 3rd Party** selection.

Note: Ctrl-A will select all check boxes for that user.



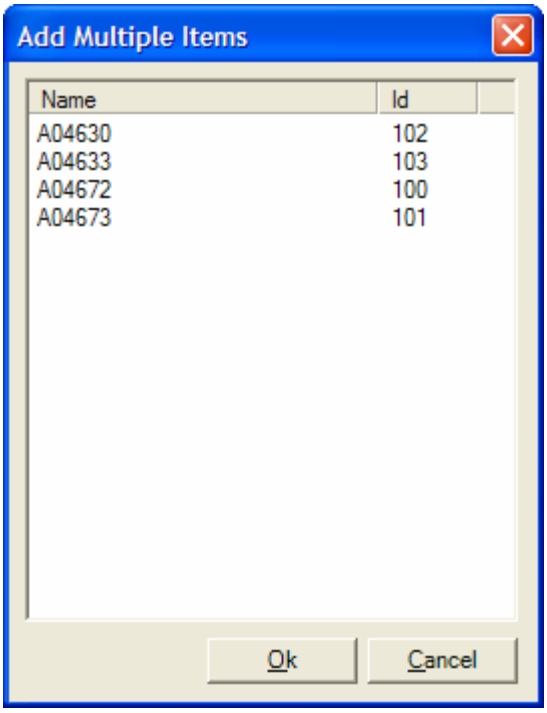
6) Select **File\Save** or press **Ctrl+S** to save the changes.

7) Do one of these steps:

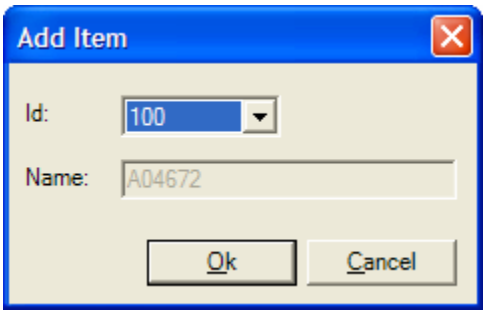
   a. Repeat steps 4 through 6 for each licensed workstation included in the Innovian System.

   b. Or complete steps 8 through 10 to add multiple workstations from the network.

8) Optionally, you may "drag and drop" multiple workstations from the network (via Explorer) to the left pane of the application. The following Add Multiple Items dialog appears:



9) Select and press the **Enter** key for each item in the Add Multiple Items dialog to update the Id's. Select and press the **Delete** key to remove an item.



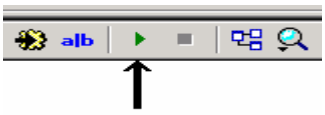
10) When you finish updating the Id's, click the **OK** button in the Add Multiple Items dialog, and then repeat steps 5 and 6 for each new workstation.

Add Saturn Converted Users

1) Verify or create the folder **D:\4sys\Conversion**.
2) Open **SQL Server Enterprise Manager**.
3) Connect to (**Local**) server and expand the **Data Transformation Services** and select **Local Packages**.

4) Double-click the **CreateSaturnConvertedUsers** DTS Package.

5) Execute the package by clicking the **green arrow** on the toolbar.



The migration runs and indicators are shown in the progress dialog.

6) Verify that the process completes without error.

7) Check the conversion log file named **1 – Create Users Log.txt** for errors (found in the **D:\4sys\Conversion** folder). The top line should say 'succeeded'. Can also search for the words 'Error' and 'Fail'.

8) Close the DTS package window.

Add Auto Archive and Patient Purge Functionality

1) Open **Query Analyzer** and attach to **PeriopDM**.

2) Open **D:\4sys\AutoArchiveSetup.sql** and execute it.
Note: You will see a message that SQL Server Agent is not running, and this is OK for now.

3) Open **D:\4sys\PatientPurgeSetup.sql** and execute it.

Update CodeScheme Entries for Procedures and Diagnosis Codes

1) In Enterprise Manager, go to PeriopDM and right-click the **CodeScheme** table and choose **Open Table, Return All Rows**. Set the rows (that correspond to the two attached code scheme databases) to active (change the Active column from 0 to **1**).

2) In the ServerConnectionString column, change **<Server Name>** to the name of the database server for all activated rows.

Update System Configuration for HL-7

Note: Skip this section if HL-7 is not installed at this site.

1) Update the System Configuration table per "4sys Communication System Interface (CSI) Installation and Configuration" document (#4118490-001) to reset the HL7 configuration settings. (HL7 settings were not converted.)

Run DBCC Check Constraints

1) Open **Query Analyzer**.
2) In the database drop-down box on the toolbar, make sure PeriopDM is selected.
3) Execute this SQL statement: **DBCC checkconstraints**
4) Ensure that no errors are returned.

   Note: If errors occur, consult your NAD Database Representative and wait for further instructions.

Run DBCC CheckDB on All Databases

1) Open **Query Analyzer**.
2) In the database drop-down box on the toolbar, make sure **PeriopDM** is selected.
3) Execute this SQL statement: **DBCC CheckDB**
4) Ensure that no errors are returned.

   If errors occur, consult your NAD Database Representative and wait for further instructions.

   Note: this step took 9 ½ minutes on a 13GB DB.
5) Repeat steps 2 – 4 for the PatientInfo and InnovianAudit databases.

Copy Databases to Backup Media

1) Take all three databases off-line.
2) Copy all three databases and log files to a backup folder.
3) Spin the backup files off to tape or other backup media and verify that they are valid.
4) Bring all three databases on-line.
5) Connect the production server to the network (connect the network cable). **The workstations are now permitted to connect to the Innovian databases. Note: The site's Administrator should complete his list (Section H) prior to all the workstations being allowed to connect.**

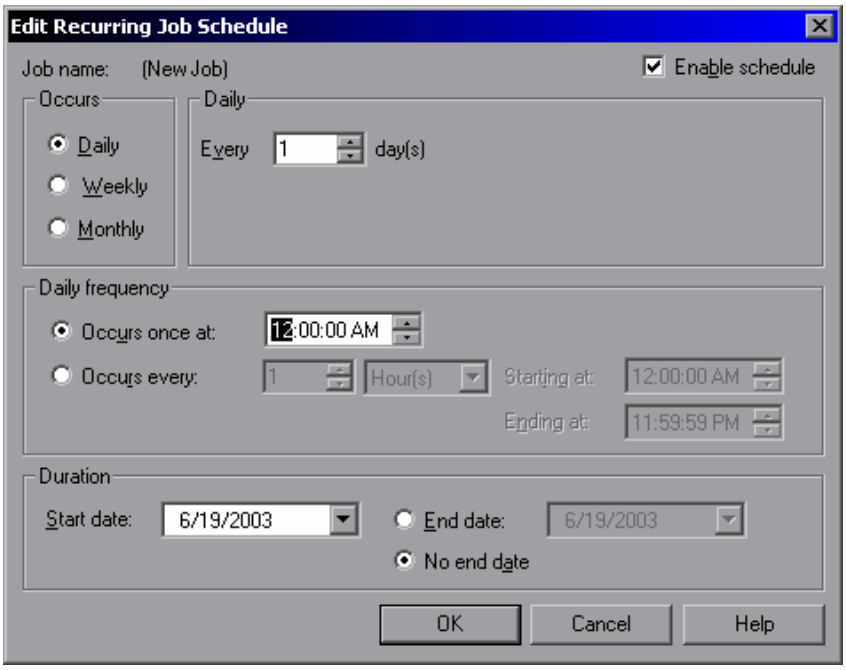
Update the Backup and Validation Utilities

Note: The DMI database utilities have been replaced with SQL Server utilities.

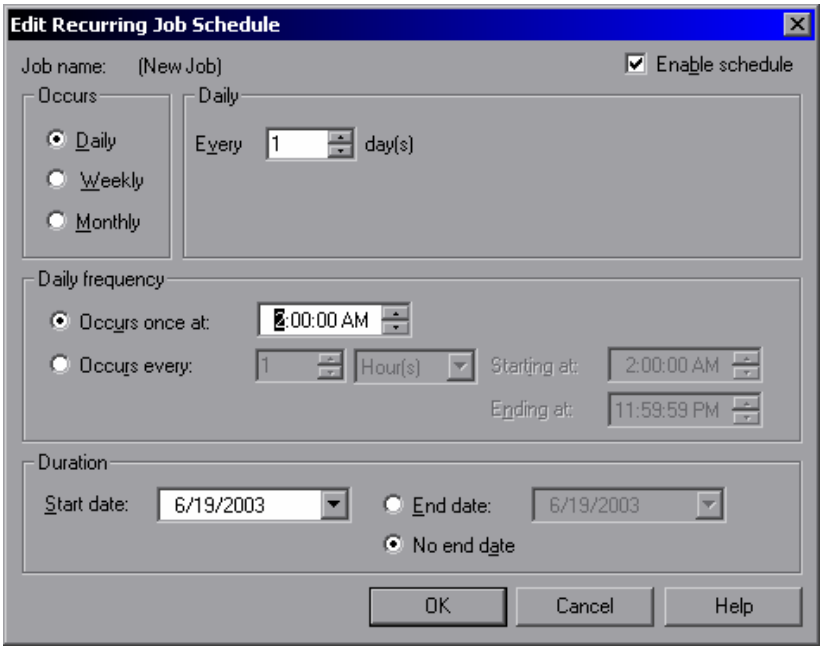
The recommended **Database Backup Schedule Configuration** is as follows: It is recommended that the customer run incremental backups once an hour on each database and also complete full backups once a day to minimize possible data loss in the event of a failure. It is also recommended that the backups made to the disk during this schedule are backed up to tape daily. This procedure provides steps to

configure the backup schedule described above.

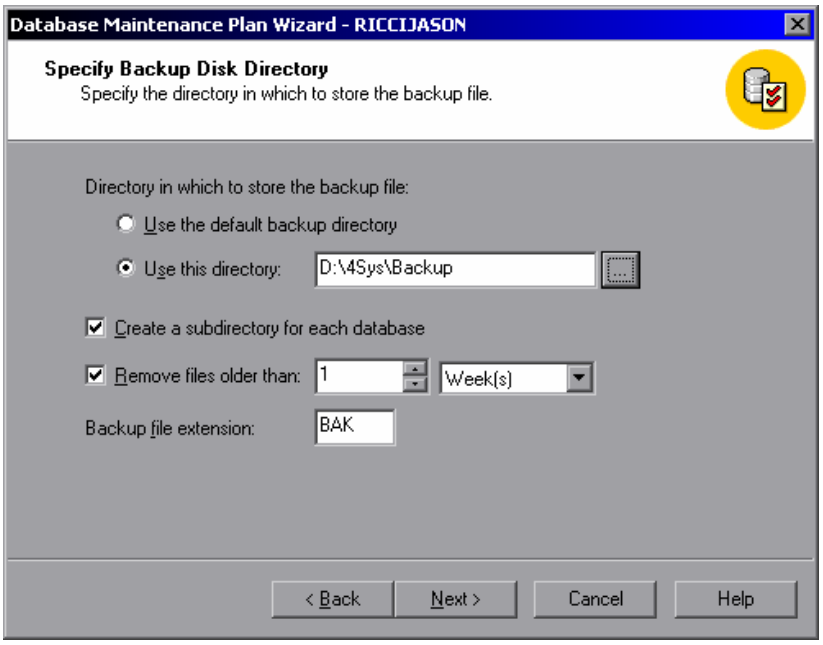
1) In Enterprise Manager, right-click on any of the three Innovian databases. Choose **All Tasks\Maintenance Plan**.
2) Click **Next**.
3) Check **Audit4sys**, **PatientInfo**, and **PeriopDM** so that all three will be backed up. Click **Next**.
4) Click **Next**.
5) Select the **Check Database Integrity** check box and then click the **Change** button.
6) Select these options in the Edit Recurring Job Schedule dialog, and then click **OK** and **Next** when you are done.



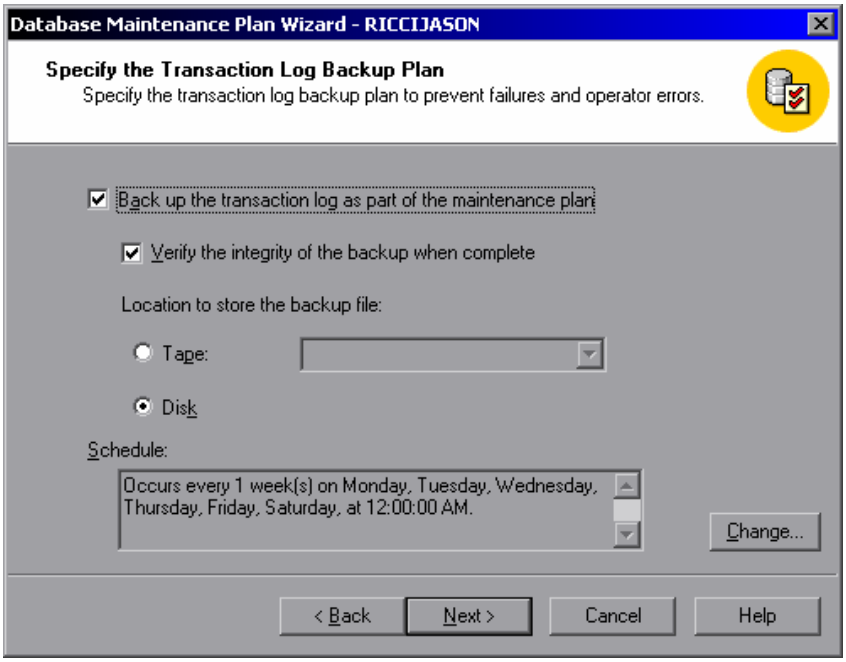
7) Click **Change** and select the options to match this screen shot. Click **OK** and **Next** when you are done.



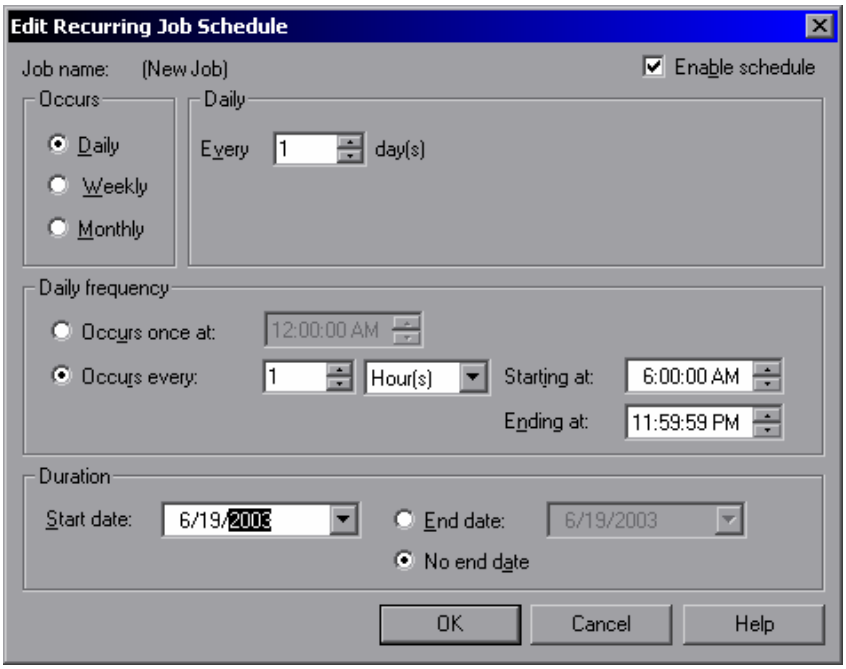
8) Select these options and then click **Next**.


Database Maintenance Plan Wizard - RICCIJASON
Specify Backup Disk Directory
Specify the directory in which to store the backup file.
Directory in which to store the backup file:
Use the default backup directory
Use this directory: D:\4Sys\Backup
Create a subdirectory for each database
Remove files older than: 1 Week(s)
Backup file extension: BAK
< Back
Next >
Cancel
Help

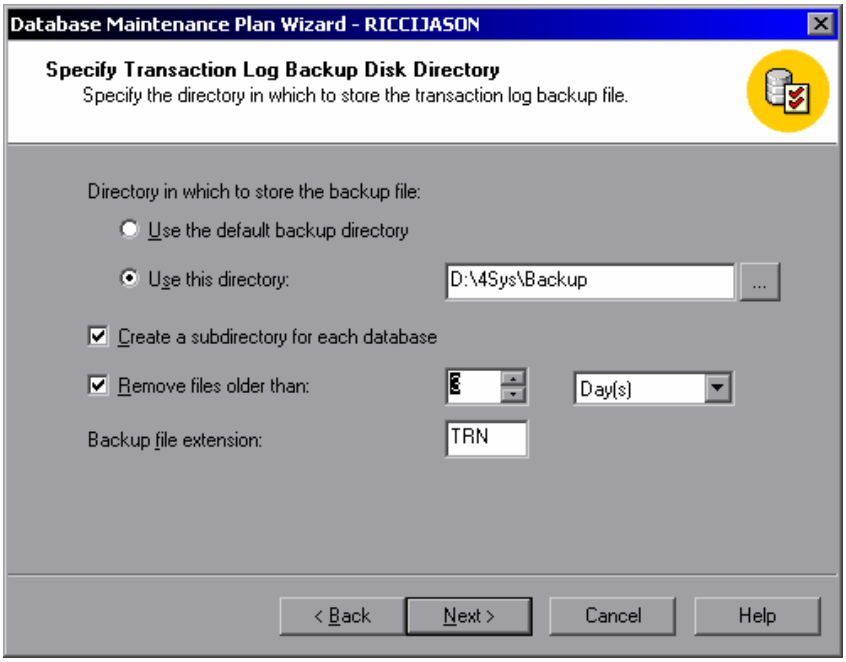
9) Select these options and then click **Change**.


Database Maintenance Plan Wizard - RICCIJASON
Specify the Transaction Log Backup Plan
Specify the transaction log backup plan to prevent failures and operator errors.
Back up the transaction log as part of the maintenance plan
Verify the integrity of the backup when complete
Location to store the backup file:
Tape:
Disk
Schedule:
Occurs every 1 week(s) on Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, at 12:00:00 AM.
Change...
< Back
Next >
Cancel
Help

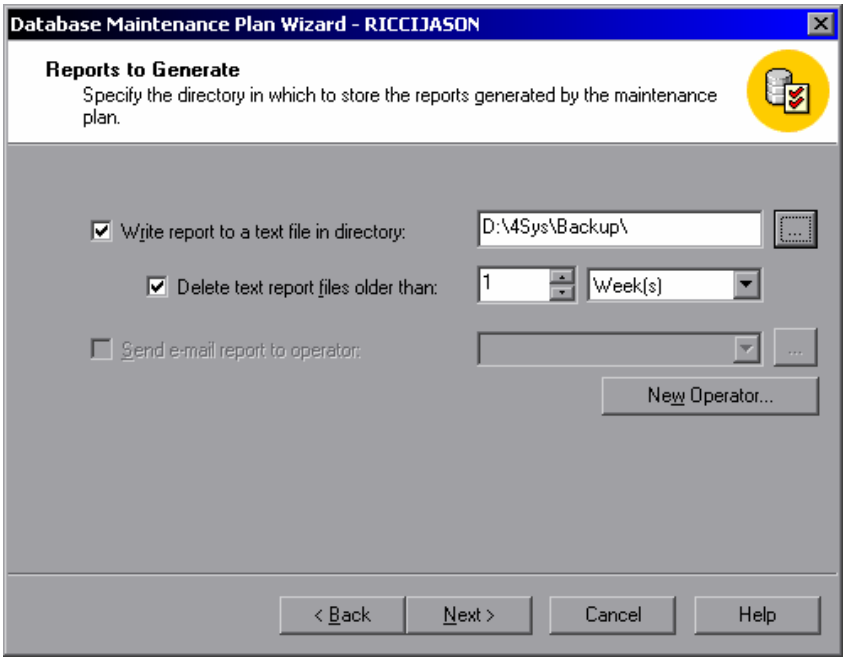
10) Select these options and then click **OK** and **Next**.



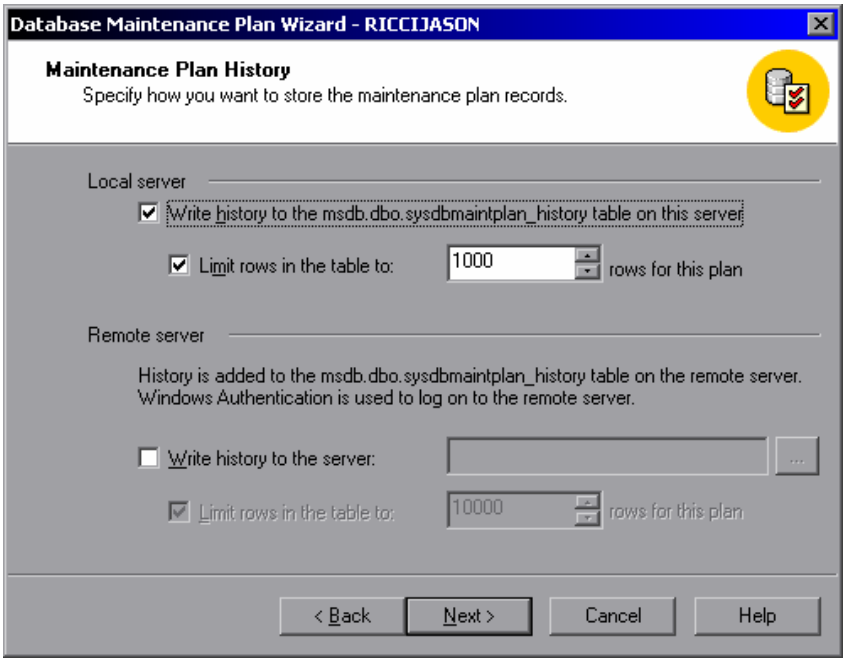
11) Select these options and then click **Next**.


Database Maintenance Plan Wizard - RICCIJASON
Specify Transaction Log Backup Disk Directory
Specify the directory in which to store the transaction log backup file.
Directory in which to store the backup file:
Use the default backup directory
Use this directory:
D:\4Sys\Backup
Create a subdirectory for each database
Remove files older than:
Day(s)
Backup file extension:
TRN
< Back
Next >
Cancel
Help

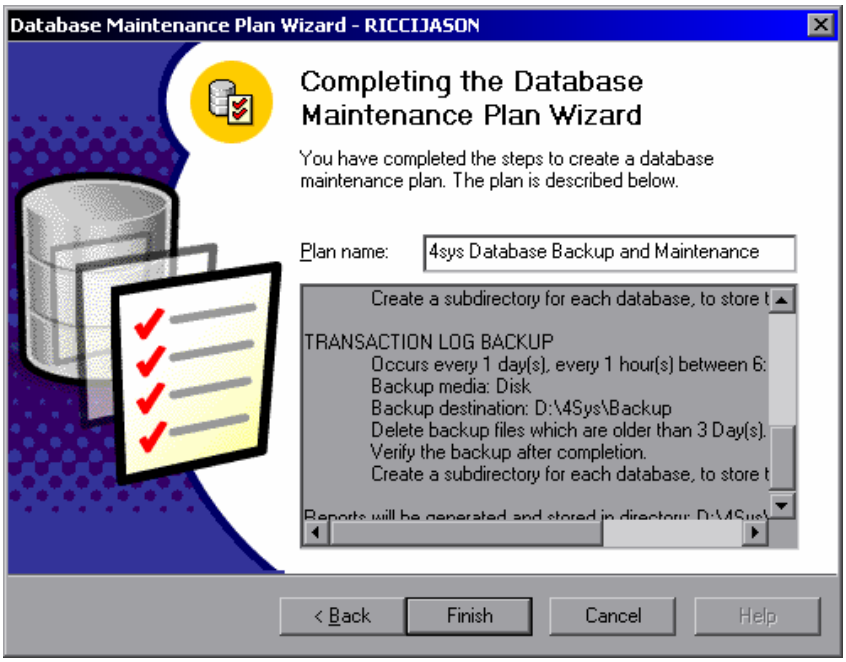
12) Select the location for the reports, how long they are kept, and then click **Next**.


Database Maintenance Plan Wizard - RICCIJASON
Reports to Generate
Specify the directory in which to store the reports generated by the maintenance plan.
Write report to a text file in directory:
D:\4Sys\Backup\
Delete text report files older than:
1
Week(s)
Send e-mail report to operator:
New Operator...
< Back
Next >
Cancel
Help

13) Ensure the options are the same as pictured here, and then click **Next**.


Database Maintenance Plan Wizard - RICCIJASON
Maintenance Plan History
Specify how you want to store the maintenance plan records.
Local server
Write history to the msdb.dbo.sysdbmaintplan_history table on this server
Limit rows in the table to:
1000
rows for this plan
Remote server
History is added to the msdb.dbo.sysdbmaintplan_history table on the remote server.
Windows Authentication is used to log on to the remote server.
Write history to the server:
Limit rows in the table to:
10000
rows for this plan
< Back
Next >
Cancel
Help

14) Change the **Plan name** and then click **Finish**.


Database Maintenance Plan Wizard - RICCIJASON
Completing the Database Maintenance Plan Wizard
You have completed the steps to create a database maintenance plan. The plan is described below.
Plan name:
4sys Database Backup and Maintenance
Create a subdirectory for each database, to store t
TRANSACTION LOG BACKUP
Occurs every 1 day(s), every 1 hour(s) between 6:
Backup media: Disk
Backup destination: D:\4Sys\Backup
Delete backup files which are older than 3 Day(s).
Verify the backup after completion.
Create a subdirectory for each database, to store t
< Back
Finish
Cancel
Help

Set the SQL Server Agent to Start Automatically

1) Double-click the **SQL Server Service Manager** icon in the system tray.
2) Make sure the server you are working on is selected in the Server drop-down and the **Services** drop down has **SQL Server** selected.
3) Select **SQL Server Agent** in the Service drop-down.
4) Click the **Start/Continue** button.
5) Select the **Auto-start service when OS starts** check box.
6) Close **SQL Server Service Manager**.

G) Workstation Upgrade

1) Update the Saturn workstations according to the "4sys Workstation Installation Procedure – Upgrade, Install, and Disaster Recovery" document (SP00293).

   Note: The UNC name listed in the Draeger.IT.Platform.config file's DB server names are case sensitive, in order to make the network connections.

H) Server Clean Up

1) Delete the following folders or files on the migration server:
   a) Delete the **D:\4sys** database files prior to leaving the site.
   b) Delete the **F:\4sysLogs** files
   c) Delete the **E:\Saturn** database and log files.
   d) Delete the **C:\DTS Error Logs** files

2) Delete the following folders or files on the customer server:
   a) Delete the **D:\4sys\US-EN\Tables** directory.
   b) Delete **D:\4sys\US-EN\PeriopDM Configuration.dts**.
   c) Delete **D:\4sys\AutoArchiveSetup.sql**.
   d) Delete **D:\4sys\PatientPurgeSetup.sql**.
   e) Delete the **D:\4sys\UK-EN** folder.
   f) Delete the **D:\4sys\GE** folder.
   g) Delete the **D:\4sys\DotNet Framework** folder.
   h) Delete all **.mdf** files in **D:\4sys\Terminology Databases** that have not been attached.
   i) Delete the **D:\4sys\PcAnywhere11** folder.
   j) Delete the **D:\4sys\Conversion** folder.
   k) Delete the **D:\4sys\BetaUpgrade** folder.
3) Verify that the **Server service** is set to **automatic** and is started.
4) Start the Scheduler service and change it to **Automatic on Startup**.
5) Have the Site Administrator complete the database site lists clean-up process in the next section.
6) Run through the **Server** section of the "4sys System Checkout Procedure" (**SP00295**).

I) Site Administrator Duties

Note: The Site Administrator needs to verify or modify some of their default site list options because of data conversion items that could not be assumed to be correct. The site's List Administrator (System Administrator) needs to review the following for correctness according to their site's needs. This list should be completed prior to allowing all workstations to connect.

1) Verify or modify the System Configuration information for AutomaticCaseArchive (previously known as PostAnnotateTime). The conversion has set the default to two days, per the new install specification.
2) Verify or move the AnesthesiaType site-specific list items that were migrated into the table AnesthesiaRegionalType. Background: Saturn AnesthesiaTypes were used in CaseAnesthesiaTypes. Saturn CaseAnesthesiaType data was split into three Innovian case tables (CaseAnesthesiaGeneralMethod, CaseAnesthesiaRegionalMethod, and CaseAnesthesiaMonitorMethod). Any 'new' items that were added to the Saturn AnesthesiaType table were added to the Innovian AnesthesiaRegionalType table, which may not be correct, but it was the most likely place to put them during the DB conversion. Some entries may need to be moved to the correct site list by the site list administrator at the site because they may belong in the general methods (Innovian list table AnesthesiaGeneralAirway).
3) Verify or modify Staff Roles in System Configuration for printed reports.
4) All Staff should change their password when they first login on Innovian. All staff logins are set to 'password' after the conversion. Inform your staff. Also, you can modify the System Configuration settings in order to force the users to change their password.
5) All Staff entries need to be updated, or verified, with a Staff Role.
6) All Staff Roles need to be updated, or verified, for Required Care Areas.
7) All Milestone Events need to be configurated for Color and Symbol.
8) Fluid Routes: Note that in Saturn fluid routes were not required but they are in Innovian. This means that if you edit an existing fluid in List Manager that does not have an associated route then you will be prompted to enter a route in order to continue working in List Manager.
9) Primary Insurance: Note that in Saturn there was not a notion of primary insurance for a patient as there is in Innovian. Therefore, Saturn's first listed insurance was used as the primary insurance for a patient's case in the database conversion, as indicated in the printed record.
10) Required Events need to have the appropriate care area selected for each one.
11) Patient Systems entries need to be review and verified or moved into their proper groups. In Saturn

some single entries were split into two categories in Innovian and the conversion only put it in one default group, which may not be the correct one.

12) Physiological Graph: Note that the Saturn Physiological graph is now called Cardiovascular in Innovian for new cases, if selected. The old Saturn graph data items were preserved during the data conversion and the old cases will reflect those graph names, which are Cardiovascular, Gas, and Ventilation. The new Innovian graphs are called Physiological and Respiration, which have default data items of their own.

********** **Database Server Upgrade is Complete** **********

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Dräger medical

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